9 August 1968

25X1

25X1

TITLE: Image Analysis Program

Report # TO-B 67-20 on Image Analysis

dated 21 April 1967

WORK PROGRAM: Carry Out Infectious Development Experiments Consisting of Counting The Undeveloped Silver Halide Crystals Remaining In an Exposed, D-19 Developed, Unfixed, 21 Step Tablet of Sub-Mono Grain Layer Model Emulsion Number N-2-0056

PROCEDURE:

- 1. Make photomicrographs and print on 8 x 10 matt paper at 1700x most steps of a 21 step density tablet of sub-mono grain layer model emulsion number N-2-0056, that has been exposed to the light of a sensitometer, developed in D-19 for 5 minutes at 68°F, treated with Eastman Kodak Co. short stop solution, washed thoroughly in running water for 30 minutes, with 3 minutes immersion in E.K. Co. Photo Flo Solution and hung up to dry (without swabbing). This special film is not fixed in the usual hypo clearing solution.
- 2. Ignoring totally black grains, count total number of single (isolated) undeveloped grains and then the total number of undeveloped grains. Express the singles as a precentage of the total.
- 3. Plot percent singles as some function of exposure. Plot percent singles as a function of the percentage of all grains developed.
- 4. Any change in percent singles represent a development Bias which arises from their difference in environment. The difference is a measure of the infectiousness of development.

Work To Follow The Above Experiment:

Two additional step tablets were exposed identically to that mentioned above. One was developed in D-11 for 6 min. at 680F and one was developed in D-8 for 3 min. at 680F. Similar photomicrographs will be made of each of these step tablets and counted as outlined above to relate infectiousness to specific aspects or types of developer.

See Attachment 1 and 2.

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